

Message Text

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ACTION COME-00

INFO OCT-01 EUR-25 ADP-00 ACDA-19 MC-02 DODE-00 EB-11

INR-10 NSAE-00 RSC-01 TRSE-00 AEC-11 CIAE-00 RSR-01

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FM AMEMBASSY BUCHAREST

TO SECSTATE WASHDC 5345

C O N F I D E N T I A L BUCHAREST 1738

E. O. 11652: GDS

TAGS: ESTC, RO

SUBJ: CDC 3500 COMPUTER SYSTEM FOR ROMANIA (OC DOC 4409;
BEWT CASE 002408)

REF: STATE 075119

1. BECAUSE OF HIGH INTEREST ON PART OF GOR OFFICIALS AND LOCAL
CONTROL DATA CORP (CDC) REPS IN PROGRESS OF SUBJECT EXPORT
LICENSE APPLICATION, EMBASSY WISHES TO SUBMIT THIS VOLUNTARY
END- USER REPORT WHICH MAY BE OF SOME USE TO INTERAGENCY COMMITTEE.

2. AT REQUEST OF CDC AND EMBASSY, FOREIGN TRADE COMPANY
ELECTRONUM
ARRANGED VISIT OF CDC OFFICIALS AND EMBOFF TO INSTITUTE
OF FLUID MECHANICS IN BUCHAREST WHERE CDC 3500 SYSTEM WOULD
BE INSTALLED. SYSTEM WOULD OPERATE IN CONJUNCTION WITH SUPERSONIC
WIND TUNNEL RECENTLY PURCHASED FROM DILWORTH- CHAMPLIN OF CANADA,
AND WITH OTHER RESEARCH EQUIPMENT ALREADY INSTALLED AT INSTITUTE.
NEW WIND TUNNEL IS ALREADY UNDER CONSTRUCTION, BUT WORK ON
BUILDING
TO HOUSE COMPUTER SYSTEM HAS BEEN HALTED BECAUSE OF DELAY IN
DELIVERY OF CDC 3500.

3. INSTITUTE HEADED BY PROF ELIE CARAFOLI, WHO IS APPARENTLY
INTERNATIONALLY WELL- KNOWN AND RESPECTED RESEARCH SCIENTIST
AND EDUCATOR AND HAS MADEHRIGNIFICANT CONTRIBUTIONS IN FIELD OF
FLUID DYNAMICS, ESPECIALLY IN THEORY OF WING PROFILES WITH ROUNDED
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TRAILING EDGES AND IN THEORY OF HIGH SPEED WINGS. CARAFOLI HAS BEEN DOING RESEARCH IN ROMANIA ON FLUID DYNAMICS FOR OVER THIRTY YEARS. HE RECENTLY GAVE SERIES OF LECTURES ON AERODYNAMICS OF SUPERSONIC AND HYPERSONIC AIRPLANES AT ILLINOIS INSTITUTE OF TECHNOLOGY.

4. INSTITUTE ITSELF HAS ONE SUBSONIC WIND TUNNEL, USING MOTOR DEVELOPED BY CARAFOLI, AND ANOTHER USING OBSOLETE SOVIET JET AIRCRAFT ENGINE. ANOTHER SECTION OF INSTITUTE HAS SHOCK TUNNEL LAB. WORK APPEARS TO BE ORIENTED TOWARD BASIC RESEARCH AND EDUCATION WITH SOME PRACTICAL APPLICATIONS FOR BUILDING CONSTRUCTION, AGRICULTURAL AIRCRAFT, VIBRATION AND STRESS ANALYSIS FOR INDUSTRY, AND WIND EFFECT ON ROAD AND FARM VEHICLES. RESEARCH HAS BEEN CARRIED ON AT INSTITUTE FOR SEVERAL YEARS UNDER PROF CARAFOLI'S DIRECTION, AND HAS BEEN ACCREDITED BY GOR AS AN EDUCATIONAL INSTITUTION WHICH IS AUTHORIZED TO AWARD DOCTORATE DEGREE IN FLUID DYNAMICS. ABOUT 220 RESEARCHER PRESENTLY EMPLOYED BY INSTITUTE.

5. WE WERE TOLD BY INSTITUTE OFFICIALS THAT NO CONTRACT EXISTS FOR ASSISTANCE OR COOPERATIVE EFFORT ON YUGOSLAV- ROMANIAN JET TRAINER PROJECT (JUROM AIRCRAFT). GENERAL IMPRESSION IS THAT INSTITUTE'S WORK IS HIGHLY RESEARCH AND EDUCATION ORIENTED, AS BORNE OUT BY ITS MANY YEARS PREVIOUS EXPERIENCE UNDER PROF CARAFOLI. ALSO, ALTHOUGH CARAFOLI'S AND INSTITUTE'S WORK PROBABLY COULD BE OF PRACTICAL USE IN SOME SPECIFIC ASPECTS OF SUPERSONIC CRAFT, CONSIDERING STATE OF ART IN ROMANIAN AIRCRAFT INDUSTRY AND ROMANIAN INDUSTRY IN GENERAL, IT IS NOT LIKELY THAT ANY ADVANCED RESEARCH WORK EITHER IN SUBSONIC OR SUPERSONIC FLOW COULD HAVE ANY SIGNIFICANT PRACTICAL APPLICATION IN ROMANIA.

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